(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization



T (MINE BUILDER IN CORNE NAME STAN CORN BOOK IN HE STAN CORN BUILD BUILD BUILD HE CORNER CORN BOOK IN CORN BOOK

(10) International Publication Number

(43) International Publication Date 1 July 2004 (01.07.2004)

PCT

WO 2004/055787 A1

(51) International Patent Classification⁷: 7/007, 20/10, 20/12

G11B 7/00,

(21) International Application Number:

PCT/IB2003/005276

(22) International Filing Date:

18 November 2003 (18.11.2003)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

02080327.6

13 December 2002 (13.12.2002) EP

(71) Applicant (for all designated States except US): KONIN-KLIJKE PHILIPS ELECTRONICS N.V. [NL/NL]; Groenewoudseweg 1, NL-5621 BA Eindhoven (NL).

(72) Inventors; and

- (75) Inventors/Applicants (for US only): SPRUIT, Johannes, H., M. [NL/NL]; c/o Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL). RIJPERS, Johannes, C., N. [NL/NL]; c/o Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL).
- (74) Agent: DEGUELLE, Wilhelmus, H., G.; Philips Intellectual Property & Standards, Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN,

MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)

Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: RECORD CARRIER COMPRISING MULTIPLE SETS OF RECORDING PARAMETERS

(57) Abstract: The invention relates to a record carrier which comprises multiple sets of recording parameters for a recording process. The recording parameters define a so-called write strategy for converting an information signal to be recorded into a pulsed radiation beam for recording the information on the record carrier. By providing multiple sets of recording parameters, each set related to a specific range of recording speeds, good quality recordings are obtained at various recording speeds.



A. CLASSIFICATION OF SUBJECT MATTER IPC 7 G11B7/00 G11B7/007 G11B20/10 G11B20/12 According to International Patent Classification (IPC) or to both national classification and IPC Minimum documentation searched (classification system followed by classification symbols) IPC 7 G11B Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) PAJ, WPI Data, EPO-Internal C. DOCUMENTS CONSIDERED TO BE RELEVANT Relevant to claim No. Category ° Citation of document, with indication, where appropriate, of the relevant passages 1-6 X US 5 835 462 A (MIMNAGH WINSLOW M) 10 November 1998 (1998-11-10) column 2, line 61 -column 6, line 5; figures US 5 212 682 A (SAKURAI YUKIMITSU) 1-6 X 18 May 1993 (1993-05-18) the whole document EP 0 798 711 A (TOKYO SHIBAURA ELECTRIC 1,3-6X CO) 1 October 1997 (1997-10-01) 2 Α claims 3,6 Patent family members are listed in annex. Further documents are listed in the continuation of box C. Special categories of cited documents: "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular relevance earlier document but published on or after the international "X" document of particular relevance; the claimed invention filing date cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such document is combined with one or more other such document. "O" document referring to an oral disclosure, use, exhibition or ments, such combination being obvious to a person skilled in the art. other means document published prior to the international filing date but *&* document member of the same patent family later than the priority date claimed Date of mailing of the international search report Date of the actual completion of the international search 27/02/2004 19 February 2004 Authorized officer Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo ni, Poth, H Fax: (+31-70) 340-3016

INTERNATIONAL SEARCH REPORT

orm n patent family members

Internation	pileation No	
PCT	03/05276	

		•					
	document earch report		Publication date		Patent family member(s)		Publication date
US 5835462		A	10-11-1998	BE	1009677	7 A3	03-06-1997
00 0000 .01		-		AT	184416	5 T	15-09-1999
				CA	2206297	7 A1	10-04-1997
			CN	1182497	7 A	20-05-1998	
				CZ	9701610) A3	14-04-1999
				DE	69604189	9 D1	14-10-1999
				DE	69604189		13-04-2000
				EP	0852796		15-07-1998
				ES	213883		16-01-2000
				GR	303192		31-03-2000
				HK	101252		12-05-2000
				MO	971324		10-04-1997
				ID	1634		25-09-1997
				JP	1151352		16-11-1999
				TW	39797	4 B 	11-07-2000
US 52	12682	A	18-05-1993	JP	320126	6 A	03-09-1991
EP 07	98711	Α	01-10-1997	JP	925957	6 A	03-10-1997
. 0,30,1				CN	116473		12-11-1997
				DE	6971571		31-10-2002
				DE	6971571		15-05-2003
				ΕP	079871		01-10-1997
				T₩	40390		01-09-2000
				US	587802	0 A	02-03-1999